1. A method for determining height parameters that describe a dynamically varying height of an ambulatory subject based on video analysis of the subject, comprising:

acquiring a sequence of images that collectively captures the gait of the subject;
measuring a dynamically varying height function of the subject based on an
analysis of the varying height of the subject in the sequence of images; and

fitting the dynamically varying height function of the subject to a model that describes varying height,

wherein the height parameters correspond to parameters used in the model.

- 2. A method according to claim 1, wherein the model represents an ideal variance in height as a sinusoidal function.
- 3. A method according to claim 1, wherein the parameters used in the model include a first parameter that describes a baseline height value exhibited by a person in ambulatory motion, and a second value that describes a maximum deviation from the baseline height value.
- 4. A method according to claim 1, wherein the measuring of the dynamically varying height function includes:

extracting a series of depictions of the ambulatory subject from a larger body of image information contained within the sequence of images;

defining a series of bounding boxes that enclose respective depictions; and

for each of the depictions, determining a distance between a point midway between the feet of the subject and a top of the depiction's associated bounding box.

5. An apparatus for determining height parameters that describe a dynamically varying height of an ambulatory subject based on video analysis of the subject, comprising:

logic configured to acquire a sequence of images that collectively captures the gait of the subject;

logic configured to measure a dynamically varying height function of the subject based on an analysis of the varying height of the subject in the sequence of images; and

logic configured to fit the dynamically varying height function of the subject to a model that describes varying height,

wherein the height parameters correspond to parameters used in the model.

- 6. An apparatus according to claim 5, wherein the model represents an ideal variance in height as a sinusoidal function.
- 7. An apparatus according to claim 5, wherein the parameters used in the model include a first parameter that describes a baseline height value exhibited by a person in ambulatory motion, and a second value that describes a maximum deviation from the baseline height value.
- 8. An apparatus according to claim 5, wherein the logic configured to measure the dynamically varying height function includes:

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logic configured to extract a series of depictions of the ambulatory subject from a larger body of image information contained within the sequence of images;

logic configured to define a series of bounding boxes that enclose respective depictions; and

logic configured to, for each of the depictions, determine a distance between a point midway between the feet of the subject and a top of the depiction's associated bounding box.

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